

ABSTRACT OF THE DISCLOSURE

A system and method for providing secure access and roaming support for a mobile subscriber connected to a telecommunication network in a Semi-Connected Mode (SCM). A point-to-point protocol (PPP) connection is established when an initial call is made from the mobile subscriber to an Internet Protocol (IP)-based network through a first access server (AS₁). AS₁ provides the mobile subscriber with an identifier for AS₁ such as an IP address. The connection enters the SCM state when the subscriber disconnects the call. When the subscriber originates a subsequent call through a second access server (AS₂), the subscriber uses the User-to-User Signalling (UUS) Supplementary Service to send the AS₁ identifier to AS₂. AS₂ then sends a Calling Number Identification (CNID) for the subscriber to AS₁. A PPP tunnel is established between AS₁ and AS₂, and AS₂ tunnels PPP packets to AS₁. The connection to the IP-based network is then re-established.